

### ABSTRACT

The invention relates to a device for the mixing, homogenizing, extraction, or slurring of materials, in particular infectious, or malodorous or chemically-aggressive materials (71) in a laboratory test vessel (70) which may be hermetically sealed with a lid (10). A stirrer element (30) is provided in the lid (10) for processing of the material (71) placed in the laboratory test vessel (70), with the stirrer element being connected to a coupling piece (50). Cutting and/or crushing elements (31; 33, 35) arranged directly adjacent to cutting edges (42, 44; 41, 43, 45) on a retainer sleeve (40), comminute the material. The stirrer element (30) is a hollow cylinder (53) and is provided with a central sealing cap (32) such that the homogenate (71) can be manually or automatically diluted or pipetted from the laboratory test vessel (70) by means of a pipette or a needle or disposable tip without removing the disposable lid (10), or analyzed with a sensor or heated or cooled by means of a heating or cooling bar.